> **This Raw Listing contains the General Information Section and up to first 5 pages.**

```
 1    <110> APPLICANT: Collins, Mary KL
 2          Weiss, Robin A
 3          Takeuchi, Yasuhiro
 4          Cosset, Francois-Loic
 5    <120> TITLE OF INVENTION: Expression systems
 6    <130> FILE REFERENCE: 09/011,745
 7    <140> CURRENT APPLICATION NUMBER: US/09/011,745
 8    <141> CURRENT FILING DATE: 1998-06-22
 9    <150> EARLIER APPLICATION NUMBER: PCT/GB96/02061
10    <151> EARLIER FILING DATE: 1996-08-23
11    <150> EARLIER APPLICATION NUMBER: GB9517263.1
12    <151> EARLIER FILING DATE: 1995-08-23
13    <160> NUMBER OF SEQ ID NOS: 29
14    <170> SOFTWARE: PatentIn Ver. 2.0
15    <210> SEQ ID NO 1
16    <211> LENGTH: 2518
17    <212> TYPE: DNA
18    <213> ORGANISM: RD114
19    <220> FEATURE:
20    <221> NAME/KEY: misc_feature
21    <222> LOCATION: (1)
22    <223> OTHER INFORMATION: n is any nucleotide
23    <400> SEQUENCE: 1
24        ngagctcagg acaggtagaa agaatgaata gaacaataaa agagaccctt actaaattga 60
25        ccttagagac tggcttaaaa gattggagac gcctcctatc tctggctttg ttaagagcca 120
26        gaaatacgcc caaccgtttt cggctcaccc catatgaaat cctttatggg ggaccccccc 180
27        ctttgtcaac cttgctcaat tccttctccc cctccgatcc taagactgat ttacaagccc 240
28        gactaaaagg gctgcaaggc gtgcaggccc aaatctggac acccctggcc gaattgtacc 300
29        ggccaggaca tccacaaact agccacccat ttcaggtggg agactccgtg tacgtccggc 360
30        ggcaccgctc tcaaggattg gagcctcgtt ggaagggacc ttacatcgtc ctgctgacca 420
31        cgcccaccgc cataaaggtt gacgggatcg ccgcctggat tcacgcatcg cacgccaagg 480
32        cagccccaaa aacccctgga ccagaaactc ccaaaacctg gaagctccgc cgttcggaga 540
33        accctcttaa gataagactc tcccgtgtct gactgctaat ccaccttgtc cctgtactaa 600
34        cccaaaatga aactcccaac aggaatggtc attttatgta gcctaataat agttcgggca 660
35        gggtttgacg accccgcaa ggctatcgca ttagtacaaa aacaacatgg taaaccatgc 720
36        gaatgcagcg gagggcaggt atccgaggcc ccaccgaact ccatccaaca ggtaacttgc 780
37        ccaggcaaga cggcctactt aatgaccaac caaaaatgga aatgcagagt cactccaaaa 840
38        atctcaccta gcgggggaga actccagaac tgcccctgta acactttcca ggactcgatg 900
39        cacagttctt gttatactga ataccggcaa tgcaggcgaa ttaataagac atactacacg 960
40        gccaccttgc ttaaaatacg gtctgggagc ctcaacgagg tacagatatt acaaaacccc 1020
41        aatcagctcc tacagtcccc ttgtaggggc tctataaatc agcccgtttg ctggagtgcc 1080
42        acagccccca tccatatctc cgatggtgga ggacccctcg atactaagag agtgtggaca 1140
43        gtccaaaaaa ggctagaaca aattcataag gctatgactc ctgaacttca ataccacccc 1200
44        ttagccctgc ccaaagtcag agatgacctt agccttgatg cacggacttt tgatatcctg 1260
```

W--> ɑ (line 24)

```
45         aataccactt ttaggttact ccagatgtcc aattttagcc ttgcccaaga ttgttggctc 1320
46         tgtttaaaac taggtacccc tacccctctt gcgatacccc ctccctcttt aacctactcc 1380
47         ctagcagact ccctagcgaa tgcctcctgt cagattatac ctcccctctt ggttcaaccg 1440
48         atgcagttct ccaactcgtc ctgtttatct tcccctttca ttaacgatac ggaacaaata 1500
49         gacttaggtg cagtcacctt tactaactgc acctctgtag ccaatgtcag tagtccttta 1560
50         tgtgccctaa acgggtcagt cttcctctgt ggaaataaca tggcatacac ctatttaccc 1620
51         caaaactgga ccagactttg cgtccaagcc tccctcctcc ccgacattga catcaacccg 1680
52         ggggatgagc cagtccccat tcctgccatt gatcattata tacatagacc taaacgagct 1740
53         gtacagttca tccctttact agctggactg ggaatcaccg cagcattcac caccggagct 1800
54         acaggcctag gtgtctccgt cacccagtat acaaaattat cccatcagtt aatatctgat 1860
55         gtccaagtct tatccggtac catacaagat ttacaagacc aggtagactc gttagctgaa 1920
56         gtagttctcc aaaataggag gggactggac ctactaacgg cagaacaagg aggaatttgt 1980
57         ttagccttac aagaaaaatg ctgtttttat gctaacaagt caggaattgt gagaaacaaa 2040
58         ataagaaccc tacaagaaga attacaaaaa cgcagggaaa gcctggcaac caaccctctc 2100
59         tggaccgggc tgcagggctt tcttccgtac ctcctacctc tcctgggacc cctactcacc 2160
60         ctcctactca tactaaccat tgggccatgc gttttcagtc gcctcatggc cttcattaat 2220
61         gatagactta atgttgtaca tgccatggtg ctggcccagc aataccaagc actcaaagct 2280
62         gaggaagaag ctcaggattg agcttccggg acaaaagcag gggggaatga gaagtcagaa 2340
63         ccccccacct ttgctacata aataaccgct ttcatttcgc ttctgtaaaa cgcttatgcg 2400
64         ccccacccta gccggaaagt ccccagccgc tacgcaaccc gggccccgag ttgcatcagc 2460
65         cgttcgcaac ccgggctccg agttgcatca gccgaaagaa acttcatttc ccaagctt    2518
66    <210> SEQ ID NO 2
67    <211> LENGTH: 7616
68    <212> TYPE: DNA
69    <213> ORGANISM: Artificial Sequence
70    <220> FEATURE:
71    <223> OTHER INFORMATION: Description of Artificial Sequence: Portion of
72          construct
73    <400> SEQUENCE: 2
74         aatgaaagac cccacctgta ggtttggcaa gctagcttaa gtaacgccat tttgcaaggc 60
75         atggaaaaat acataactga gaatagagaa gttcagatca aggtcaggaa cagatggaac 120
76         agctgaatat gggccaaaca ggatatctgt ggtaagcagt tcctgccccg gctcagggcc 180
77         aagaacagat ggaacagctg aatatgggcc aaacaggata tctgtggtaa gcagttcctg 240
78         ccccggctca gggccaagaa cagatggtcc ccagatgcgg tccagccctc agcagtttct 300
79         agagaaccat cagatgtttc cagggtgccc caaggacctg aaatgaccct gtgccttatt 360
80         tgaactaacc aatcagttcg cttctcgctt ctgttcgcgc gcttctgctc cccgagctca 420
81         ataaaagagc ccacaacccc tcactcgggg cgccagtcct ccgattgact gagtcgcccg 480
82         ggtacccgtg tatccaataa accctcttgc agttgcatcc gacttgtggt ctcgctgttc 540
83         cttgggaggg tctcctctga gtgattgact acccgtcagc gggggtcttt catttggggg 600
84         ctcgtccggg atcgggagac ccctgcccag ggaccaccga cccaccaccg ggaggtaagc 660
85         tggaagcttc tgcagcatcg ttctgtgttg tctctgtctg actgtgtttc tgtatttgtc 720
86         tgagaatatg ggccagactg ttaccactcc cttaagtttg accttaggtc actggaaaga 780
87         tgtcgagcgg atcgctcaca accagtcggt agatgtcaag aagagacgtt gggttacctt 840
88         ctgctctgca gaatggccaa cctttaacgt cggatggccg cgagacggca cctttaaccg 900
89         agacctcatc acccaggtta agatcaaggt cttttcacct ggcccgcatg gacacccaga 960
90         ccaggtcccc tacatcgtga cctgggaagc cttggctttt gacccccctc cctgggtcaa 1020
91         gccctttgta caccctaagc ctccgcctcc tcttcctcca tccgccccgt ctctccccct 1080
92         tgaacctcct cgttcgaccc cgcctcgatc ctccctttat ccagccctca ctccttctct 1140
93         aggcgccaaa cctaaacctc aagttctttc tgacagtggg gggccgctca tcgacctact 1200
94         tacagaagac ccccgccctt atagggaccc aagaccaccc ccttccgaca gggacggaaa 1260
```

```
 95      tggtggagaa gcgacccctg cgggagaggc accggacccc tccccaatgg catctcgcct 1320
 96      acgtgggaga cgggagcccc ctgtggccga ctccactacc tcgcaggcat tccccctccg 1380
 97      cgcaggagga aacggacagc ttcaatactg gccgttctcc tcttctgacc tttacaactg 1440
 98      gaaaaataat aacccttctt tttctgaaga tccaggtaaa ctgacagctc tgatcgagtc 1500
 99      tgttctcatc acccatcagc ccacctggga cgactgtcag cagctgttgg ggactctgct 1560
100      gaccggagaa gaaaaacaac gggtgctctt agaggctaga aaggcggtgc ggggcgatga 1620
101      tgggcgcccc actcaactgc ccaatgaagt cgatgccgct tttcccctcg agcgcccaga 1680
102      ctgggattac accacccagg caggtaggaa ccacctagtc cactatcgcc agttgctcct 1740
103      agcgggtctc caaaacgcgg gcagaagccc caccaatttg gccaaggtaa aaggaataac 1800
104      acaagggccc aatgagtctc cctcggcctt cctagagaga cttaaggaag cctatcgcag 1860
105      gtacactcct tatgaccctg aggacccagg gcaagaaact aatgtgtcta tgtctttcat 1920
106      ttggcagtct gccccagaca ttgggagaaa gttagagagg ttagaagatt taaaaaacaa 1980
107      gacgcttgga gatttggtta gagaggcaga aaagatcttt aataaacgag aaaccccgga 2040
108      agaaagagag gaacgtatca ggagagaaac agaggaaaaa gaagaacgcc gtaggacaga 2100
109      ggatgagcag aaagagaaag aaagagatcg taggagacat agagagatga gcaagctatt 2160
110      ggccactgtc gttagtggac agaaacagga tagacaggga ggagaacgaa ggaggtccca 2220
111      actcgatcgc gaccagtgtg cctactgcaa agaaaagggg cactgggcta aagattgtcc 2280
112      caagaaacca cgaggacctc ggggaccaag accccagacc tccctcctga ccctagatga 2340
113      ctagggaggt cagggtcagg agcccccccc tgaacccagg ataaccctca aagtcggggg 2400
114      gcaacccgtc accttcctgg tagatactgg ggcccaacac tccgtgctga cccaaaatcc 2460
115      tggacccota agtgataagt ctgcctgggt ccaaggggct actggaggaa agcggtatcg 2520
116      ctggaccacg gatcgcaaag tacatctagc taccggtaag gtcacccact ctttcctcca 2580
117      tgtaccagac tgtccctatc ctctgttagg aagagatttg ctgactaaac taaaagccca 2640
118      aatccacttt gagggatcag gagctcaggt tatgggacca atggggcagc ccctgcaagt 2700
119      gttgaccota aatatagaag atgagcatcg gctacatgag acctcaaaag agccagatgt 2760
120      ttctctaggg tccacatggc tgtctgattt tcctcaggcc tgggcggaaa ccggggggcat 2820
121      gggactggca gttcgccaag ctcctctgat catacctctg aaagcaacct ctaccccgt 2880
122      gtccataaaa caataccca tgtcacaaga agccagactg gggatcaagc cccacataca 2940
123      gagactgttg gaccagggaa tactggtacc ctgccagtcc ccctggaaca cgcccctgct 3000
124      acccgttaag aaaccaggga ctaatgatta taggcctgtc caggatctga gagaagtcaa 3060
125      caagcgggtg gaagacatcc accccaccgt gcccaaccct tacaacctct tgagcgggct 3120
126      cccaccgtcc caccagtggt acactgtgct tgatttaaag gatgcctttt tctgcctgag 3180
127      actccacccc accagtcagc ctctcttcgc ctttgagtgg agagatccag agatgggaat 3240
128      ctcaggacaa ttgacctgga ccagactccc acagggtttc aaaaacagtc ccaccctgtt 3300
129      tgatgaggca ctgcacagag acctagcaga cttccggatc cagcacccag acttgatcct 3360
130      gctacagtac gtggatgact tactgctggc cgccacttct gagctagact gccaacaagg 3420
131      tactcgggcc ctgttacaaa ccctagggaa cctcgggtat cgggcctcgg ccaagaaagc 3480
132      ccaaatttgc cagaaacagg tcaagtatct ggggtatctt ctaaagagg gtcagagatg 3540
133      gctgactgag gccagaaaag agactgtgat ggggcagcct actccgaaga cccctcgaca 3600
134      actaagggag ttcctaggga cggcaggctt ctgtcgcctc tggatccctg ggtttgcaga 3660
135      aatggcagcc cccttgtacc ctctcaccaa aacggggact ctgtttaatt ggggcccaga 3720
136      ccaacaaaag gcctatcaag aaatcaagca agctcttcta actgccccag ccctggggtt 3780
137      gccagatttg actaagccct ttgaactctt tgtcgacgag aagcagggct acgccaaagg 3840
138      tgtcctaacg caaaaactgg gaccttggcg tcggccggtg gcctacctgt ccaaaaagct 3900
139      agacccagta gcagctgggt ggcccccttg cctacggatg gtagcagcca ttgccgtact 3960
140      gacaaaggat gcaggcaagc taaccatggg acagccacta gtcattctgg ccccccatgc 4020
141      agtagaggca ctagtcaaac aaccccccga ccgctggctt ccaacgcccc ggatgactca 4080
142      ctatcaggcc ttgcttttgg acacggaccg ggtccagttc ggaccggtgg tagccctgaa 4140
143      cccggctacg ctgctcccac tgcctgagga agggctgcaa cacaactgcc ttgatatcct 4200
144      ggccgaagcc cacggaaccc gacccgacct aacggaccag ccgctcccag acgccgacca 4260
```

145	cacctggtac	acggatggaa	gcagtctctt	acaagaggga	cagcgtaagg	cgggagctgc 4320
146	ggtgaccacc	gagaccgagg	taatctgggc	taaagccctg	ccagccggga	catccgctca 4380
147	gcgggctgaa	ctgatagcac	tcacccaggc	cctaaagatg	gcagaaggta	agaagctaaa 4440
148	tgtttatact	gatagccgtt	atgcttttgc	tactgcccat	atccatggag	aaatatacag 4500
149	aaggcgtggg	ttgctcacat	cagaaggcaa	agagatcaaa	aataaagacg	agatcttggc 4560
150	cctactaaaa	gccctctttc	tgcccaaaag	acttagcata	atccattgtc	caggacatca 4620
151	aaagggacac	agcgccgagg	ctagaggcaa	ccggatggct	gaccaagcgg	cccgaaaggc 4680
152	agccatcaca	gagactccag	acacctctac	cctcctcata	gaaaattcat	caccctacac 4740
153	ctcagaacat	tttcattaca	cagtgactga	tataaaggac	ctaaccaagt	tgggggccat 4800
154	ttatgataaa	acaaagaagt	attgggtcta	ccaaggaaaa	cctgtgatgc	ctgaccagtt 4860
155	tacttttgaa	ttattagact	ttcttcatca	gctgactcac	ctcagcttct	caaaaatgaa 4920
156	ggctctccta	gagagaagcc	acagtcccta	ctacatgctg	aaccgggatc	gaacactcaa 4980
157	aaatatcact	gagacctgca	aagcttgtgc	acaagtcaac	gccagcaagt	ctgccgttaa 5040
158	acagggaact	agggtccgcg	ggcatcggcc	cggcactcat	tgggagatcg	atttcaccga 5100
159	gataaagccc	ggattgtatg	gctataaata	tcttctagtt	tttatagata	ccttttctgg 5160
160	ctggatagaa	gccttcccaa	ccaagaaaga	aaccgccaag	gtcgtaacca	agaagctact 5220
161	agaggagatc	ttccccaggt	tcggcatgcc	tcaggtattg	ggaactgaca	atgggcctgc 5280
162	cttcgtctcc	aaggtgagtc	agacagtggc	cgatctgttg	gggattgatt	ggaaattaca 5340
163	ttgtgcatac	agaccccaaa	gctcaggcca	ggtagaaaga	atgaatagaa	ccatcaagga 5400
164	gactttaact	aaaattaacgc	ttgcaactgg	ctctagagac	tgggtgctcc	tactcccctt 5460
165	agccctgtac	cgagcccgca	acacgccggg	cccccatggc	ctcaccccat	atgagatctt 5520
166	atatggggca	cccccgcccc	ttgtaaactt	ccctgaccct	gacatgacaa	gagttactaa 5580
167	cagcccctct	ctccaagctc	acttacaggc	tctctactta	gtccagcacg	aagtctggag 5640
168	acctctggcg	gcagcctacc	aagaacaact	ggaccgaccg	gtggtacctc	acccttaccg 5700
169	agtcggcgac	acagtgtggg	tccgccgaca	ccagactaag	aacctagaac	ctcgctggaa 5760
170	aggaccttac	acagtcctgc	tgaccacccc	caccgccctc	aaagtagacg	gcatcgcagc 5820
171	ttggatacac	gccgcccacg	tgaaggctgc	cgaccccggg	ggtggaccat	cctctagact 5880
172	gacatggcgc	gttcaacgct	ctcaaaaccc	cttaaaaata	aggttaaccc	gcgaggcccc 5940
173	ctaatcccct	taattcttct	gatgctcaga	ggggtcagta	ctgcttcgcc	cggctccagt 6000
174	gcggcccagc	cggccaccat	gaaaacattt	aacatttctc	aacaagatct	agaattagta 6060
175	gaagtagcga	cagagaagat	tacaatgctt	tatgaggata	ataaacatca	tgtgggagcg 6120
176	gcaattcgta	cgaaaacagg	agaaatcatt	tcggcagtac	atattgaagc	gtatatagga 6180
177	cgagtaactg	tttgtgcaga	agccattgcg	attggtagtg	cagtttcgaa	tggacaaaag 6240
178	gattttgaca	cgattgtagc	tgttagacac	ccttattctg	acgaagtaga	tagaagtatt 6300
179	cgagtggtaa	gtccttgtgg	tatgtgtagg	gagttgattt	cagactatgc	accagattgt 6360
180	tttgtgttaa	tagaaatgaa	tggcaagtta	gtcaaaacta	cgattgaaga	actcattcca 6420
181	ctcaaatata	cccgaaatta	aaagttttac	caccaagctt	atcgattagt	ccaatttgtt 6480
182	aaagacagga	tatcagtggt	ccaggctcta	gttttgactc	aacaatatca	ccagctgaag 6540
183	cctatagagt	acgagccata	gataaaataa	aagattttat	ttagtctcca	gaaaaagggg 6600
184	ggaatgaaag	accccacctg	taggtttggc	aagctagctt	agtaacgcc	attttgcaag 6660
185	gcatggaaaa	atacataact	gagaatagag	aagttcagat	caaggtcagg	aacagatgga 6720
186	acagtcgaga	acttgtttat	tgcagcttat	aatggttaca	aataaagcaa	tagcatcaca 6780
187	aatttcacaa	ataaagcatt	tttttcactg	cattctagtt	gtggtttgtc	caaactcatc 6840
188	aatgtatctt	atcatgtctg	gatccccagg	aagctcctct	gtgtcctcat	aaaccctaac 6900
189	ctcctctact	tgagaggaca	ttccaatcat	aggctgccca	tccaccctct	gtgtcctcct 6960
190	gttaattagg	tcacttaaca	aaaggaaat	tgggtagggg	tttttcacag	accgctttct 7020
191	aagggtaatt	ttaaaatatc	tgggaagtcc	cttccactgc	tgtgttccag	aagtgttggt 7080
192	aaacagccca	caaatgtcaa	cagcagaaac	atacaagctg	tcagctttgc	acaagggccc 7140
193	aacaccctgc	tcatcaagaa	gcactgtggt	tgctgtgtta	gtaatgtgca	aaacaggagg 7200
194	cacatttttcc	ccacctgtgt	aggttccaaa	atatctagtg	ttttcatttt	tacttggatc 7260

195	aggaacccag	cactccactg	gataagcatt	atccttatcc	aaaacagcct	tgtggtcagt 7320
196	gttcatctgc	tgactgtcaa	ctgtagcatt	ttttgggggtt	acagtttgag	caggatattt 7380
197	ggtcctgtag	tttgctaaca	caccctgcag	ctccaaaggt	tccccaccaa	cagcaaaaaa 7440
198	atgaaaattt	gaccccttgaa	tgggttttcc	agcaccattt	tcatgagttt	tttgtgtccc 7500
199	tgaatgcaag	tttaacatag	cagttacccc	aataacctca	gttttaacag	taacagcttc 7560
200	ccacatcaaa	atatttccac	aggttaagtc	ctcatttaaa	ttaggcaaag	gaattc 7616
201	<210> SEQ ID NO 3					
202	<211> LENGTH: 7308					
203	<212> TYPE: DNA					
204	<213> ORGANISM: Artificial Sequence					
205	<220> FEATURE:					
206	<223> OTHER INFORMATION: Description of Artificial Sequence: Portion of					
207	construct					
208	<400> SEQUENCE: 3					
209	agatctcccg	atcccctatg	gtcgactctc	agtacaatct	gctctgatgc	cgcatagtta 60
210	agccagtatc	tgctccctgc	ttgtgtgttg	gaggtcgctg	agtagtgcgc	gagcaaaatt 120
211	taagctacaa	caaggcaagg	cttgaccgac	aattgcatga	agaatctgct	tagggttagg 180
212	cgttttgcgc	tgcttcgcga	tgtacgggcc	agatatacgc	gttgacattg	attattgact 240
213	agttattaat	agtaatcaat	tacggggtca	ttagttcata	gcccatatat	ggagttccgc 300
214	gttacataac	ttacggtaaa	tggcccgcct	ggctgaccgc	ccaacgaccc	ccgcccattg 360
215	acgtcaataa	tgacgtatgt	tcccatagta	acgccaatag	ggactttcca	ttgacgtcaa 420
216	tgggtggact	atttacggta	aactgcccac	ttggcagtac	atcaagtgta	tcatatgcca 480
217	agtacgcccc	ctattgacgt	caatgacggt	aaatggcccg	cctggcatta	tgcccagtac 540
218	atgaccttat	gggactttcc	tacttggcag	tacatctacg	tattagtcat	cgctattacc 600
219	atggtgatgc	ggttttggca	gtacatcaat	gggcgtggat	agcggtttga	ctcacgggga 660
220	tttccaagtc	tccacccccat	tgacgtcaat	gggagtttgt	tttggcacca	aaatcaacgg 720
221	gactttccaa	aatgtcgtaa	caactccgcc	ccattgacgc	aaatgggcgg	taggcgtgta 780
222	cggtgggagg	tctatataag	cagagctctc	tggctaacta	gagaacccac	tgcttaactg 840
223	gcttatcgaa	atgtcgactg	agaacttcag	ggtgagtttg	gggacccttg	attgttcttt 900
224	cttttttcgct	attgtaaaat	tcatgttata	tggaggggggc	aaagtttttca	gggtgttgtt 960
225	tagaatggga	agatgtccct	tgtatcacca	tggaccctca	tgataatttt	gtttctttca 1020
226	ctttctactc	tgttgacaac	cattgtctcc	tcttattttc	ttttcatttt	ctgtaacttt 1080
227	ttcgttaaac	tttagcttgc	atttgtaacg	aattttttaaa	ttcacttttg	tttatttgtc 1140
228	agattgtaag	tactttctct	aatcacttttt	ttttcaaggc	aatcagggta	tattatattg 1200
229	tacttcagca	cagtttttaga	gaacaattgt	tataattaaa	tgataaggta	gaatatttct 1260
230	gcatataaat	tctggctggc	gtggaaatat	tcttattggt	agaaacaact	acatcctggt 1320
231	catcatcctg	cctttctctt	tatggttaca	atgatataca	ctgtttgaga	tgaggataaa 1380
232	atactctgag	tccaaaccgg	gcccctctgc	taaccatgtt	catgccttct	tctttttcct 1440
233	acagctcctg	ggcaacgtgc	tggttgttgt	gctgtctcat	catttttggca	agaattggcc 1500
234	gcaagcttct	gcagcatcgt	tctgtgttgt	ctctgtctga	ctgtgtttct	gtatttgtct 1560
235	gagaatatgg	gccagactgt	taccactccc	ttaagtttga	ccttaggtca	ctggaaagat 1620
236	gtcgagcgga	tcgctcacaa	ccagtcggta	gatgtcaaga	agagacgttg	ggttaccttc 1680
237	tgctctgcag	aatggccaac	ctttaacgtc	ggatggccgc	gagacggcac	ctttaaccga 1740
238	gacctcatca	cccaggttaa	gatcaaggtc	ttttcacctg	gcccgcatgg	acacccagac 1800
239	caggtccect	acatcgtgac	ctgggaagcc	ttggcttttg	accccccctcc	ctgggtcaag 1860
240	cccttttgtac	accctaagcc	tccgcctcct	cttcctccat	ccgccccgtc	tctccccctt 1920
241	gaacctcctc	gttcgacccc	gcctcgatcc	tccctttatc	cagccctcac	tccttctcta 1980
242	ggcgccaaac	ctaaacctca	agttctttct	gacagtgggg	ggccgctcat	cgacctactt 2040
243	acagaagacc	ccccgcctta	tagggaccca	agaccacccc	cttccgacag	ggacggaaat 2100
244	ggtggagaag	cgacccctgc	gggagaggca	ccggacccct	ccccaatggc	atctcgccta 2160

Line	?	Error/Warning	Original Text
24	W	"N" or "Xaa" used: Feature required	ngagctcagg acaggtagaa agaatgaata gaacaata
563	W	"N" or "Xaa" used: Feature required	tgcgcgaccc ggccggcaac tgcgtgcact tcgtggcc
567	W	"N" or "Xaa" used: Feature required	tnnnnacatg tgagcaaaag gccagcaaaa ggccagga
705	W	"N" or "Xaa" used: Feature required	acttcgtggc cgaggagcag gactgannnn cggaccgg
708	W	"N" or "Xaa" used: Feature required	atccagatct gggcccatgc ggccgcggat cgatnnnn
851	W	"N" or "Xaa" used: Feature required	caactgcgtg cacttcgtgg ccgaggagca ggactgan
854	W	"N" or "Xaa" used: Feature required	atcatgtctg gatccagatc tgggcccatg cggccgcg
990	W	"N" or "Xaa" used: Feature required	gcaggactga nnnncggacc ggtcgacttg ttaacttg
993	W	"N" or "Xaa" used: Feature required	atgcggccgc ggatcgatnn nnacatgtga gcaaaagg
1117	W	"N" or "Xaa" used: Feature required	caggactgan nnncggaccg gtcga
1221	W	"N" or "Xaa" used: Feature required	agyarvgtag cngggtthag g